

Jorda

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/507,466

Source: PST

Date Processed by STIC: 4-6-05

ENTERED

Best Available Copy



PCT

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:17

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw

```

3 <110> APPLICANT: OSTERMEIER, MARK
5 <120> TITLE OF INVENTION: MOLECULAR SWITCHES AND METHODS FOR MAKING AND USING THE
6   SAME
8 <130> FILE REFERENCE: 56908 (71699)
10 <140> CURRENT APPLICATION NUMBER: 10/507,466
11 <141> CURRENT FILING DATE: 2004-09-10
13 <150> PRIOR APPLICATION NUMBER: PCT/US03/07380
14 <151> PRIOR FILING DATE: 2003-03-10
16 <150> PRIOR APPLICATION NUMBER: 60/362,588
17 <151> PRIOR FILING DATE: 2002-03-11
19 <160> NUMBER OF SEQ ID NOS: 41
21 <170> SOFTWARE: PatentIn Ver. 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 4
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
30   linker sequence
32 <400> SEQUENCE: 1
33 Gly Ser Gly Gly
34   1
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 37
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapiens
42 <400> SEQUENCE: 2
43 Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg Leu Leu Ser
44   1           5           10           15
46 Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu Gly Thr Leu Val Thr
47           20           25           30
49 Met Gly Leu Leu Thr
50           35
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 14
55 <212> TYPE: PRT
56 <213> ORGANISM: Unknown Organism
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Description of Unknown Organism: Myristylation
60   src amino acid sequence
62 <400> SEQUENCE: 3
63 Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
64   1           5           10

```

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:17

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw

```

67 <210> SEQ ID NO: 4
68 <211> LENGTH: 25
69 <212> TYPE: PRT
70 <213> ORGANISM: Unknown Organism
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Unknown Organism: Palmitoylation GRK6
74     amino acid sequence
76 <400> SEQUENCE: 4
77 Leu Leu Gln Arg Leu Phe Ser Arg Gln Asp Cys Cys Gly Asn Cys Ser
78   1           5           10           15
80 Asp Ser Glu Glu Glu Leu Pro Thr Arg
81           20           25
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 7
86 <212> TYPE: PRT
87 <213> ORGANISM: Monkey virus
89 <400> SEQUENCE: 5
90 Pro Lys Lys Lys Lys Lys Val
91   1           5
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 6
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 6
100 Ala Arg Arg Arg Arg Pro
101   1           5
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 10
106 <212> TYPE: PRT
107 <213> ORGANISM: Unknown Organism
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Unknown Organism: NF kB p50 amino
111     acid sequence
113 <400> SEQUENCE: 7
114 Glu Glu Val Gln Arg Lys Arg Gln Lys Leu
115   1           5           10
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 9
120 <212> TYPE: PRT
121 <213> ORGANISM: Unknown Organism
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Unknown Organism: NF kB p65 amino
125     acid sequence
127 <400> SEQUENCE: 8
128 Glu Glu Lys Arg Lys Arg Thr Tyr Glu
129   1           5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 21
134 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:17

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw

```

135 <213> ORGANISM: Unknown Organism
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Unknown Organism: Nucleoplasmin
139     amino acid sequence
141 <400> SEQUENCE: 9
142 Ala Val Lys Arg Pro Ala Ala Thr Leu Lys Lys Ala Gly Gln Ala Lys
143   1           5           10           15
145 Lys Lys Lys Leu Asp
146           20
149 <210> SEQ ID NO: 10
150 <211> LENGTH: 5
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 10
155 Lys Phe Glu Arg Gln
156   1           5
159 <210> SEQ ID NO: 11
160 <211> LENGTH: 36
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 11
165 Met Leu Ile Pro Ile Ala Gly Phe Phe Ala Leu Ala Gly Leu Val Leu
166   1           5           10           15
168 Ile Val Leu Ile Ala Tyr Leu Ile Gly Arg Lys Arg Ser His Ala Gly
169           20           25           30
171 Tyr Gln Thr Ile
172           35
175 <210> SEQ ID NO: 12
176 <211> LENGTH: 35
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 12
181 Leu Val Pro Ile Ala Val Gly Ala Ala Leu Ala Gly Val Leu Ile Leu
182   1           5           10           15
184 Val Leu Leu Ala Tyr Phe Ile Gly Leu Lys His His His Ala Gly Tyr
185           20           25           30
187 Glu Gln Phe
188           35
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 27
193 <212> TYPE: PRT
194 <213> ORGANISM: Saccharomyces sp.
196 <400> SEQUENCE: 13
197 Met Leu Arg Thr Ser Ser Leu Phe Thr Arg Arg Val Gln Pro Ser Leu
198   1           5           10           15
200 Phe Ser Arg Asn Ile Leu Arg Leu Gln Ser Thr
201           20           25
204 <210> SEQ ID NO: 14
205 <211> LENGTH: 25

```

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:17

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw

```

206 <212> TYPE: PRT
207 <213> ORGANISM: Saccharomyces sp.
209 <400> SEQUENCE: 14
210 Met Leu Ser Leu Arg Gln Ser Ile Arg Phe Phe Lys Pro Ala Thr Arg
211   1           5           10           15
213 Thr Leu Cys Ser Ser Arg Tyr Leu Leu
214           20           25
217 <210> SEQ ID NO: 15
218 <211> LENGTH: 64
219 <212> TYPE: PRT
220 <213> ORGANISM: Saccharomyces sp.
222 <400> SEQUENCE: 15
223 Met Phe Ser Met Leu Ser Lys Arg Trp Ala Gln Arg Thr Leu Ser Lys
224   1           5           10           15
226 Ser Phe Tyr Ser Thr Ala Thr Gly Ala Ala Ser Lys Ser Gly Lys Leu
227           20           25           30
229 Thr Gln Lys Leu Val Thr Ala Gly Val Ala Ala Ala Gly Ile Thr Ala
230           35           40           45
232 Ser Thr Leu Leu Tyr Ala Asp Ser Leu Thr Ala Glu Ala Met Thr Ala
233           50           55           60
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 41
238 <212> TYPE: PRT
239 <213> ORGANISM: Saccharomyces sp.
241 <400> SEQUENCE: 16
242 Met Lys Ser Phe Ile Thr Arg Asn Lys Thr Ala Ile Leu Ala Thr Val
243   1           5           10           15
245 Ala Ala Thr Gly Thr Ala Ile Gly Ala Tyr Tyr Tyr Tyr Asn Gln Leu
246           20           25           30
248 Gln Gln Gln Gln Gln Arg Gly Lys Lys
249           35           40
252 <210> SEQ ID NO: 17
253 <211> LENGTH: 4
254 <212> TYPE: PRT
255 <213> ORGANISM: Unknown Organism
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Unknown Organism: Protein sequence
259     from calreticulin
261 <400> SEQUENCE: 17
262 Lys Asp Glu Leu
263   1
266 <210> SEQ ID NO: 18
267 <211> LENGTH: 15
268 <212> TYPE: PRT
269 <213> ORGANISM: Human adenovirus
271 <400> SEQUENCE: 18
272 Leu Tyr Leu Ser Arg Ser Phe Ile Asp Glu Lys Lys Met Pro
273   1           5           10           15
276 <210> SEQ ID NO: 19

```

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:17

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw

```

277 <211> LENGTH: 20
278 <212> TYPE: PRT
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 19
282 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
283   1           5           10           15
285 Val Thr Asn Ser
286           20
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 29
291 <212> TYPE: PRT
292 <213> ORGANISM: Homo sapiens
294 <400> SEQUENCE: 20
295 Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
296   1           5           10           15
298 Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr
299           20           25
302 <210> SEQ ID NO: 21
303 <211> LENGTH: 27
304 <212> TYPE: PRT
305 <213> ORGANISM: Homo sapiens
307 <400> SEQUENCE: 21
308 Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu Ala Leu Leu Ala Leu
309   1           5           10           15
311 Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn
312           20           25
315 <210> SEQ ID NO: 22
316 <211> LENGTH: 18
317 <212> TYPE: PRT
318 <213> ORGANISM: Influenza virus
320 <400> SEQUENCE: 22
321 Met Lys Ala Lys Leu Leu Val Leu Leu Tyr Ala Phe Val Ala Gly Asp
322   1           5           10           15
324 Gln Ile
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 24
330 <212> TYPE: PRT
331 <213> ORGANISM: Homo sapiens
333 <400> SEQUENCE: 23
334 Met Gly Leu Thr Ser Gln Leu Leu Pro Pro Leu Phe Phe Leu Leu Ala
335   1           5           10           15
337 Cys Ala Gly Asn Phe Val His Gly
338           20
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 4
343 <212> TYPE: PRT
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

```

VERIFICATION SUMMARY

DATE: 04/06/2005

PATENT APPLICATION: US/10/507,466

TIME: 14:36:18

Input Set : A:\56987169.app

Output Set: N:\CRF4\04062005\J507466.raw